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1 On the attributes of the SCISM organization

Stamatis Vassiliadis, Bart Bianer, Richard J. Eickemeyer September 1992 SI GARCH Computer Architecture News, Volume 20 Issue 4

Publisher: ACM Full text available: T (940.07 KB) Additional Information: full citation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 3. Downloads (12 Months): 16. Downloads (Overall): 74

In this paper, we describe some of the attributes of the SCISM organization, a multip the outcome of five years of research at the IBM Glendale Laboratory, in Endicott, Ne organization embodies a number ...

2 Implications of structured programming for machine architecture Andrew S. Tanenbaum

March 1978 Communications of the ACM , Volume 21 Issue 3

Publisher: ACM Pequest Permissions

Full text available: 😭 🖭 (1.08 MB) Additional Information: full citation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 31, Downloads (Overall): 30

Based on an empirical study of more than 10,000 lines of program text written in a C architecture specifically designed for structured programs is proposed. Since assignm statements together account ...

Keywords: computer architecture, computer organization, instruction set design, ma characteristics

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3 Three extensions to register integration Vlad Petric, Anne Bracy, Amir Roth

November 2002 MICRO 35: Proceedings of the 35th annual ACM/IEEE international sym Publisher: IEEE Computer Society Press

Full text available: Publisher Site , Pcf (1.37 MB) Additional Information: full citation, abstract, referen

Bibliometrics: Downloads (6 Weeks): 3, Downloads (12 Months): 9, Downloads (Overall): 147

Register integration (or just integration) is a register renaming discipline that implem physical register sharing. Initially developed to perform squash reuse, the integration reuse scenarios. Here. ...

4 A simple graph-based intermediate representation

Cliff Click, Michael Paleczny

March 1995 Papers from the 1995 ACM SIGPLAN workshop on Intermediate representa Publisher: ACM

Full text available: Pdf (157.59 KB) Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 17. Downloads (12 Months): 79. Downloads (Overall): 4

We present a graph-based intermediate representation (IR) with simple semantics ar implementation. The IR uses a directed graph with labeled vertices and ordered input Vertices are labeled with opcodes, ...

Also published in:

March 1995 SIGPLAN Notices Volume 30 Issue 3

5 The design of a space efficient compiler
Michael K. Donegan
August 1978 SIGMINI '78: Proceedings of the first SIGMINI symposium on Small syste

Publisher: ACM

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Pdf (449.01 KB)

Additional Information: full cliation, abstract, references,

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Writing a compiler for a small machine with minimal software support can be quite di long and debugging aids are usually inadequate. In addition, the usual techniques for produce programs which are ...

Also published in:

August 1978 SIGMINI Newsletter Volume 4 Issue 4

MicroTAL - a machine-dependent, high-level microprogramming language
 Just F. Bartlett

December 1981 MI CRO 14: Proceedings of the 14th annual workshop on Microprogramn Publisher: ACM

Full text available: Pdf (413.24 KB)

Additional Information: full citation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 2. Downloads (12 Months): 7. Downloads (Overall): 70.

The design and implementation of a high-level microprogramming language is descril an existing systems programming language, TAL, which allows algorithms to be writt language. The procedure may ...

Also published in:

December 1981 SIGMICRO Newsletter Volume 12 Issue 4

7 Measuring VAX 8800 performance with a histogram hardware monitor D. W. Clark, P. J. Bannon, J. B. Keller

June 1988 ISCA '88: Proceedings of the 15th Annual International Symposium on Co Publisher: ACM

Full text available: Pdf (1.04 MB)

Additional Information: full citation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 5, Downloads (12 Months): 23, Downloads (Overall): 14

This paper reports the results of a study of VAX 8800 processor performance using a histograms of the processor's micro-PC and memory bus status. The monitor keeps a executed at each micro-PC \dots

Also published in:

May 1988 SIGARCH Computer Architecture News Volume 16 Issue 2

- On the introduction of reconfigurable hardware into computer architecture educal
 Foss Brennan, Michael Manzke
- June 2003 WCAE '03: Proceedings of the 2003 workshop on Computer architecture e with the 30th International Symposium on Computer Architecture

Publisher: ACM

Full text available: Pdf (233.83 KB) Additional Information: full citation, abstract, references

Bibliometrics: Downloads (6 Weeks): 3. Downloads (12 Months): 23. Downloads (Overall): 43

The introduction of reconfigurable logic devices as teaching-aids, into undergraduate enables the students to conduct experiments they could otherwise not perform. Furth instructors the freedom to choose ...

9 Cycle-accurate energy consumption measurement and analysis; case study of A Naehyuck Chang, Kwanho Kim, Hyung Gyu Lee

August 2000 ISLPED '00: Proceedings of the 2000 international symposium on Low pov Publisher: ACM Paguest Permissions

Full text available: Pdf (129.03 KB) Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks); 8. Downloads (12 Months); 39. Downloads (Overall); 52

We introduce an energy consumption analysis of complex digital systems through a c processor by using a new energy measurement technique. We developed a cycle-acc measurement system based on charge transfer ...

10 Concept and synthesis of an operating system nucleus implemented in computer

→ Jan Kazimierczak February 1987 CSC '87: Proceedings of the 15th annual conference on Computer Science Publisher: ACM [◆] Request Permitations

Full text available: Pcf (1.28 MB)

Additional Information: full cliation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 6, Downloads (Overall): 99,

In this paper a concept of an operating system nucleus is introduced and its synthesi concept the operating system nucleus should be realized as hardware that generates parts of the programs ...

11 A microcoded RISC

🔈 D. K. Dußose, D. K. Fotakis, D. Tabak

December 1986 MI CRO 19: Proceedings of the 19th annual workshop on Microprogramn Publisher: ACM

Full text available: Pdf (409.75 KB)

Additional Information: full citation, abstract, references,

Bibliometrics: Downloads (6 Weeks): 4, Downloads (12 Months): 7, Downloads (Overall): 115

A new, microcoded, RISC-type system is proposed and presented. The microcode is ϵ Nanomemory in the CPU. The 8-bit opcode of each instruction is a direct address to t Nanomemory 64-bit word (horizontal microcode) ...

Also published in:

December 1986 SIGMICRO Newsletter Volume 17 Issue 4

12 Low-cost branch folding for embedded applications with small tight loops Lea Hwang Lee, Jeff Scott, Bill Moyer, John Arends

November 1999 MI CRO 32: Proceedings of the 32nd annual ACM/IEEE international sym Publisher: IEEE Computer Society

Full text available: Publisher Site , Ped (953.19 KB) Additional Information: full citation, abstract, refer

Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 21, Downloads (Overall): 3

Many portable and embedded applications are characterized by spending a large frac program loops. To improve performance, many embedded systems use special instruc executions. These special ...

13 A comparison of the code space and execution time required for FORTRAN assi

computer architectures

Richard A. Belgard, Victor B. Schneider

December 1978 MICRO 11: Proceedings of the 11th annual workshop on Microprogramn Publisher: ACM

Full text available: Pdf (470.08 KB)

Additional Information: full estation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 11, Downloads (Overall): 76

A method is presented for deriving lower and upper bounds for memory space and ex-FORTRAN assignment statements. Formulas, in terms of variable references, are presist hypothetical computer architectures, ...

Also published in:

December 1978 SIGMICRO Newsletter Volume 9 Issue 4

14 A microcoded RISC

D. K. DuBose, D. K. Fotakis, D. Tabak

June 1986 SI GARCH Computer Architecture News, Volume 14 Issue 3 Publisher: ACM

Full text available: Pdf (363.51 KB)

Additional Information: full citation, abstract, cited by, in-

Bibliometrics: Downloads (6 Weeks): 1, Downloads (12 Months): 8, Downloads (Overall): 76,

A new, microcoded, RISC-type system is proposed and presented. The microcode is a Nanomemory in the CPU. The 8-bit opcode of each instruction is a direct address to t Nanomemory 64-bit word (horizontal microcode) ...

15 Derive: a tool that automatically reverse-engineers instruction encodings

Dawson R. Engler, Wilson C. Hsieh

January 2000 DYNAMO '00: Proceedings of the ACM SIGPLAN workshop on Dynamic an optimization

Publisher: ACM

Full text available: Pdf (1.07 MB)

Additional Information: full citation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 7, Downloads (12 Months): 26, Downloads (Overall): 4

Many binary tools, such as disassemblers, dynamic code generation systems, and exunderstand how machine instructions are encoded. Unfortunately, specifying such en prone. Users must typically ...

Also published in:

July 2000 SIGPLAN Notices Volume 35 Issue 7

16 Generation of fast interpreters for Huffman compressed bytecode

Mario Latendresse, Marc Feeley
June 2003 IVME '03: Proceeding

June 2003 IVME '03: Proceedings of the 2003 workshop on Interpreters, virtual mach Publisher: ACM ♣ Request Permissions

Full text available: Pdf (323.22 KB)

ext available: Pdf (323.22 KB) Additional Information: full cliation, abstract, references.

Bibliometrics: Downloads (6 Weeks): 12, Downloads (12 Months): 32, Downloads (Overall): 4

Embedded systems often have severe memory constraints requiring careful encoding smart cards have on the order of 1K of RAM, 16K of non-volatile memory, and 24K o an effective approach to obtain ...

Keywords: Java, canonical Huffman code, code compression, decoder

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